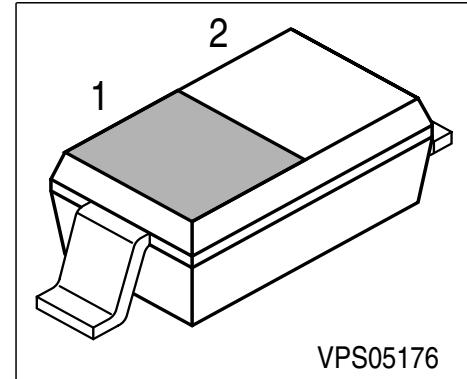


Silicon Schottky Diode

- Low barrier diode for detectors up to GHz frequencies



ESD: Electrostatic discharge sensitive device, observe handling precaution!

Type	Marking	Pin Configuration		Package
BAT 62-03W	L	1 = C	2 = A	SOD-323

Maximum Ratings

Parameter	Symbol	Value	Unit
Diode reverse voltage	V_R	40	V
Forward current	I_F	40	mA
Total power dissipation, $T_S \leq 85^\circ\text{C}$	P_{tot}	150	mW
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 ... 150	

Thermal Resistance

Junction - ambient 1)	R_{thJA}	≤ 650	K/W
Junction - soldering point	R_{thJS}	≤ 810	

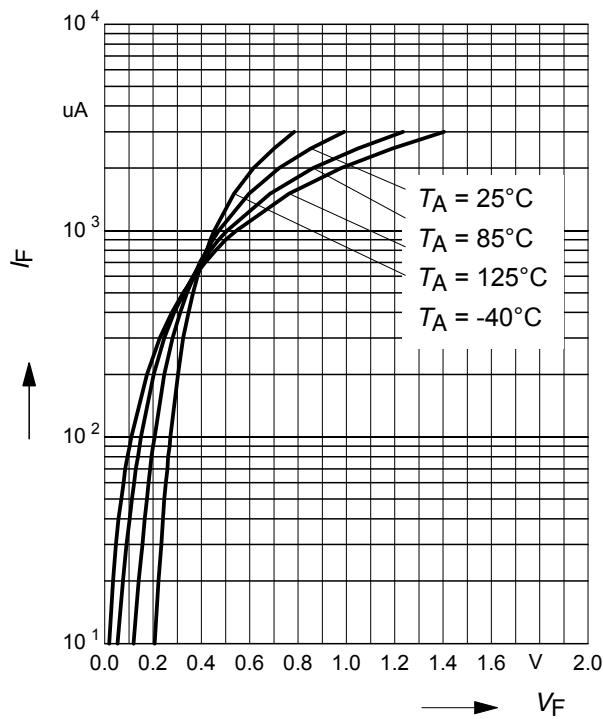
1) Package mounted on epoxy pcb 15mm x 16.7mm x 0.7mm

Electrical Characteristics at $T_A = 25^\circ\text{C}$, unless otherwise specified.

Parameter	Symbol	Values			Unit
		min.	typ.	max.	
DC characteristics					
Reverse current $V_R = 40 \text{ V}$	I_R	-	-	10	μA
Forward voltage $I_F = 2 \text{ mA}$	V_F	-	0.58	1	V
AC characteristics					
Diode capacitance $V_R = 1 \text{ V}, f = 1 \text{ MHz}$	C_T	-	0.35	0.6	pF
Case capacitance $f = 1 \text{ MHz}$	C_C	-	0.1	-	
Differential resistance $V_R = 0, f = 10 \text{ kHz}$	R_0	-	225	-	$\text{k}\Omega$
Series inductance	L_s	-	1.8	-	nH

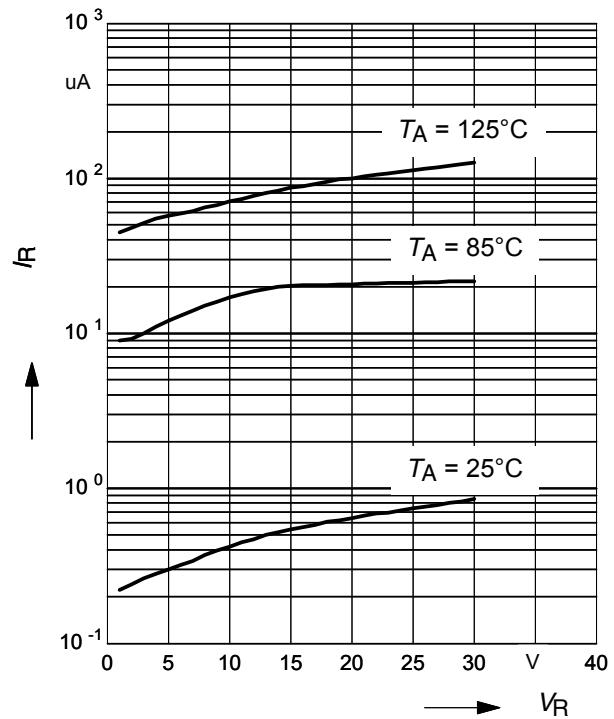
Forward current $I_F = f(V_F)$

T_A = parameter



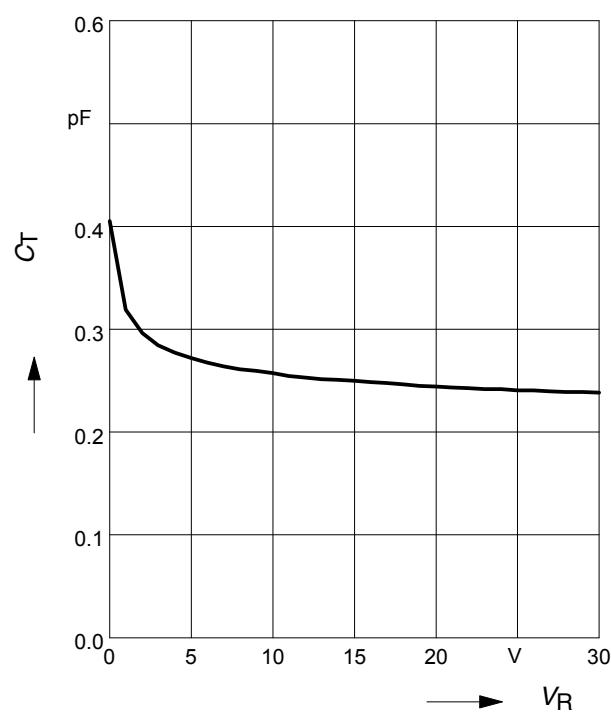
Leakage current $I_R = f(V_R)$

T_A = Parameter



Diode capacitance $C_T = f(V_R)$

$f = 1\text{MHz}$



Rectifier voltage $V_A = f(V_E)$

$f = 900\text{ MHz}$

R_L = parameter in Ω

